

MATERIAL SAFETY DATA SHEET

MSDS NUMBER ▶ 5.060-3

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97002 (1-01)

	57002 (1-6 t)		•
SECTION	I NAME	24 HOUR EMERGENCY	ASSISTANCE
PRODUCT	Methyl Isobutyl Ketone	SHELL 713-473-9461 CHEMTREC 800-424-9300	HEALTH 2
CHEMICAL/ SYNONYMS	MIBK, 4-methyl-2-pentanone	HAZARD RATING	FIRE 3
CHEMICAL FAMILY	Ketone	LEAST SLIGHT O 1 MODERATE HIGH EXTREME	REACTIVITY O
SHELL CODE	31135 C.A.S. NUMBER 108-10-1	2 3 4	

	cc	MPOSITION	%		TOXICITY DATA	
Methyl	Isobutyl	Ketone	100	Oral LDso (ra Dermal LDso (>20ml/kg	·	
	•			Inhalation LC 2,000-6,000	so (rat) = ppm/4 hours	
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Liquid is irritating to the eyes.

Prolonged or repeated contact of liquid with skin can cause dryness and irritation.

Breathing high vapor concentrations or prolonged exposure to vapors can cause irritation of the eyes, nose and throat and may cause headache, dizziness, nausea and unconsciousness.

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL and ACGIH TLV = 100ppm or 410mg/m3 TWA (8-hour workday) ACGIH TLV = 125ppm or 510 mg/m3 STEL

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	97003 (1-81)				1 AGE 2 01 4
SECTION V		EMERGENCY	AND FIRST AN	PROCEDURES	
INHALATION:	Remove	victim to	fresh air.	Give artificial	respiration if
	not bre	eathing. G	et medical a	attention.	
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Flush eyes immediately with large amounts of water for at EYE CONTACT: least 15 minutes. Get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and do not reuse until they have been laundered.

Give large amounts of water, then induce vomiting by INGESTION:

touching back of throat with finger. Get medical

attention.

SECTION VI		PHYSICAL D	ATA	
BOILING POINT	241	MELTING POINT (°F)	-118	VAPOR PRESSURE 15@68°F (mmHg)
SPECIFIC GRAVITY (H ₂ 0=1)) 0.81@60/60°F	% VOLATILE BY VOLUME	100	VAPOR DENSITY 3.5 (AIR=1)
SOLUBILITY IN WATER	Moderate	EVAPORATION RATE (BUTYL ACETATE= 1)	1.6	

Colorless, mobile liquid. Pleasant odor.

SECTION VII FIRE AND EXPLO	SION HAZARDS		
FLASH POINT AND METHOD USED	FLAMMABLE LIMITS/% VOLUME IN AIR	LOWER	UPPER
60°F' (TCC)		1.4	7.5
EXTINGUISHING MEDIA			

Dry chemical, "alcohol" foam, CO2, water spray or fog.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Do not enter confined fire space without proper protective equipment including NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Treat as a flammable liquid.

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PAGE 3 OF 4 97004 (10-79) REACTIVITY SECTION VIII X STABLE X | WILL NOT OCCUR STABILITY > HAZARDOUS POLYMERIZATION MAY OCCUR UNSTABLE CONDITIONS AND MATERIALS TO AVOID Keep away from heat, sparks and open flames. No smoking. Reacts With strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide can form upon incomplete combustion. SECTION IX EMPLOYEE PROTECTION RESPIRATORY PROTECTION Use NIOSH approved respiratory protection equipment as required to prevent overexposure. PROTECTIVE CLOTHING Use goggles if material can be sprayed or splashed into the eyes. impervious gloves and appropriate protective clothing to prevent skin contact. ADDITIONAL PROTECTIVE MEASURES Use in well ventilated areas.

SECTION X

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

Eliminate all sources of ignition immediately and evacuate the area. prepared for fire.

Wear appropriate protective clothing and respiratory protection equipment when entering the spill area. Shut off leak if it can be done safely. Ventilate the area. Dike and pump off large spills into salvage or storage containers. 'Take up residue or small spills with absorbent material such as clay or vermiculite. Scoop up all contaminated soil and dispose of in same manner as the product. See Section XIII.

WASTE DISPOSAL

Handle waste material in accordance with RCRA requirements. Section XIII.

ENVIRONMENTAL HAZARDS

Do not allow product to enter storm or sanitary sewers, lakes, rivers, streams or public water supplies. Notify local authorities if this happens or is threatened

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SECTION XI

SPECIAL PRECAUTIONS

MIBK is a volatile, flammable liquid.

Keep away from any source of ignition such as heat, sparks and open flame. Ground all containers when pouring or transferring liquid.

Store in tightly closed containers in a cool, well ventilated area.

Do not eat or smoke in areas where this product is handled processed or stored. Wash up with soap and water before eating, smoking, or using toilet facilities.

SECTION XII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION X FLAMMABLE LIQUID COMBUSTIBLE LIQUID COMBUSTIBLE LIQUID COMBUSTIBLE LIQUID OXIDIZING MATERIAL NON-FLAMMABLE GAS CORROSIVE MATERIAL D.O.T. REGULATIONS
CLASSIFICATION FLAMMABLE GAS POISON, CLASS B IRRITATING MATERIAL OTHER-Specify below
D.O.T. PROPER SHIPPING NAME
Flammable Liquid, N.O.S. OTHER REQUIREMENTS
D.O.T. I.D. Number UN 1993. Guide Sheet 26.
SECTION XIII OTHER REGULATORY CONTROLS
EPA,FDA, OSHA, USDA, CPSC, etc.
EPA,FDA,OSHA.USDA.CPSC,etc.
EPA,FDA,OSHA,USDA,CPSC,etc. EPA - Resource Conservation and Recovery Act (RCRA) Methyl Isobutyl Ketone has been designated by the EPA (RCRA 40 CFR 261.33) as a hazardous waste if it is spilled, discarded or intended to be

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material. Come to Shell for answers SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE OIL AND CHEMICAL PRODUCTS P.O. BOX 4320 HOUSTON, TEXAS 77210

DATE PREPARED March 09, 1981